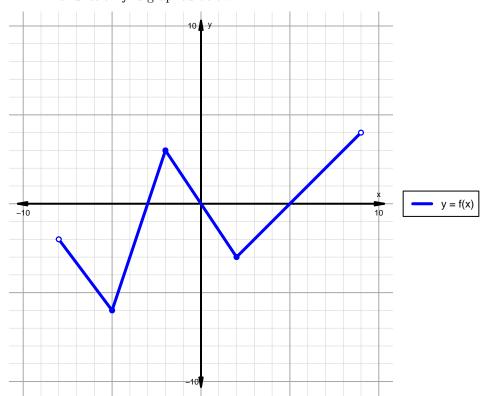
Intervals, Transformations, and Slope EXAM (version 145)

1. The function f is graphed below.

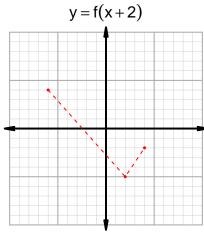


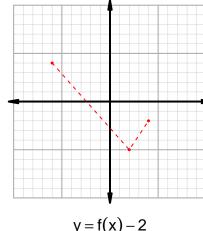
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

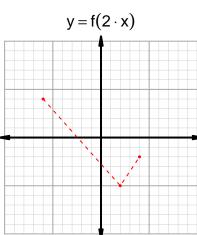
Intervals, Transformations, and Slope EXAM (version 145)

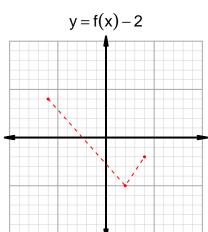
2. In the four graphs below, y = f(x) is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.





 $y = 2 \cdot f(x)$





3. Let function g be defined by the table below. Use the formula $\frac{g(x_2)-g(x_1)}{x_2-x_1}$ to find the average rate of change between $x_1=25$ and $x_2=67$. Express your answer as a reduced fraction.

x	g(x)
25	88
40	25
67	40
88	67